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Measuring the dynamics of circular dichroism in a pump–probe experiment with a Babinet–Soleil compensator: erratum

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The calculation in Ref. 1 utilized the Jones matrix formalism developed in Ref. 2. Unfortunately, there has been a confusion in the definition of the right- and left-handed polarization of light, which results in a sign error in the formulas of Ref. 1. With the usual definition of the circular dichroism given in Eq. (3), η should be replaced by $-\eta$ in all the subsequent equations. The same is true for $\Delta\eta$. In particular, Eq. (8) should read

$$I^{out} = e^{-\alpha L}\left[\left(\epsilon - \frac{\delta}{2}\right)^2 + \left(X - \frac{\eta}{4}\right)^2\right], \tag{1}$$

and Eq. (18) should read

$$LI = -\Delta\alpha L Z^2 - \frac{1}{2}\Delta\eta Z + K_8. \tag{2}$$

The signs of the experimental values of η and $\Delta\eta$ measured in the article are nevertheless correct.

A typo also occurred in Eq. (15), which should read

$$Z = Y - \frac{\Delta\eta e^{-\Delta\alpha L}}{4(e^{-\Delta\alpha L} + 1)}. \tag{3}$$

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